BRUHAT BANGALORE MAHANAGAR PALIKE

Name of Work: Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division

JOB NUMBER: Sl No.4 Est Amount= 175.00 Lakhs

Sl. No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB300-1. Earthwork Excavation by manual means for roads, Drains and similar works in ordinary soil excavated surface levelled and neatly dressed. KPWD S.R 2019-19 It No 19.10 Pg. No. 130.								
	CC Drain								
	Sai Nagar Phase-2								
	LHS, Ch:00-234 1st Main Road	Cum	1	234.00	1.10	1.00	257.40		
	RHS, Ch:00-213 1st Main Road		1	213.00	1.10	1.00	234.30		
	LHS, Ch:00-250 2nd Main Road		1	250.00	1.10	1.00	275.00		
	LHS, Ch:00-52 1st cross road		1	52.00	1.10	1.00	57.20		
	RHS, Ch:00-52 1st cross road		1	52.00	1.10	1.00	57.20		
	LHS, Ch:00- 44 7th cross road		1	44.00	1.10	1.00	48.40		
	RHS, Ch:00- 54 7th cross road		1	54.30	1.10	1.00	59.73		
	Anugraha layout								
	LHS, Ch:00 - 130 2nd cross road		1	130.00	1.10	1.00	143.00		
	RHS, Ch:00 - 131 2nd cross road		1	131.00	1.10	1.00	144.10		
	New Kerb								
	Sai Nagar Phase-2								
	LHS, Ch:00-234 1st Main Road		1	234.00	0.20	0.20	9.23		
	RHS, Ch:00-213 1st Main Road		1	213.00	0.20	0.20	8.50		
	LHS, Ch:00-250 2nd Main Road		1	250.00	0.20	0.20	10.00		
	Anugraha layout								
	LHS, Ch:00 - 130 2nd cross road		1	130.00	0.20	0.20	5.10		
	RHS, Ch:00 - 131 2nd cross road		1	131.00	0.20	0.20	5.14		
	New Culvert								
	Cross Road		8	7.00	1.50	1.15	96.60		
						Total Qty	1410.90	211.79	298814.51
2	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation. KPWD S.R 2018-19 It No. 34.1 Pg.No. 254.								
	CC Drain								
	Sai Nagar Phase-2								
	LHS, Ch:00-234 1st Main Road	Cum	1	234.00	1.10	0.15	38.61		
	RHS, Ch:00-213 1st Main Road		1	213.00	1.10	0.15	35.15		
	LHS, Ch:00-250 2nd Main Road		1	250.00	1.10	0.15	41.25		
	LHS, Ch:00-52 1st cross road		1	52.00	1.10	0.15	8.58		
	RHS, Ch:00-52 1st cross road		1	52.00	1.10	0.15	8.58		
	LHS, Ch:00- 44 7th cross road		1	44.00	1.10	0.15	7.26		
	RHS, Ch:00- 54 7th cross road		1	54.30	1.10	0.15	8.96		
	Anugraha layout								
	LHS, Ch:00 - 130 2nd cross road		1	130.00	1.10	0.15	21.45		
	RHS, Ch:00 - 131 2nd cross road		1	131.00	1.10	0.15	21.62		
	New Kerb								
	Sai Nagar Phase-2								
	LHS, Ch:00-234 1st Main Road		1	234.00	0.20	0.10	4.68		
	RHS, Ch:00-213 1st Main Road		1	213.00	0.20	0.10	4.26		
	LHS, Ch:00-250 2nd Main Road		1	250.00	0.20	0.10	5.00		
	Anugraha layout								
	LHS, Ch:00 - 130 2nd cross road		1	130.00	0.20	0.10	2.60		
	RHS, Ch:00 - 131 2nd cross road		1	131.00	0.20	0.10	2.62		
	New Culvert								

Sl. No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
	Cross Road								
			8	7.00	1.50	0.15	12.60		
						Total Qty	223.21	4479.56	999880.35
3	KSRRB M2200-6. Providing bars Fe 500 steel reinforcement for RCC work includuing straightning, cutting, bending, hooking, placing in position , lapping and/or welding whereever required. KPWD S.R 2018-19								
		It No	28.8.2	Pg No.	229				
	One cubic mt 60 kg For CC Drain	T	1	23.06			23.06		
	One cubic mt 90 kg For Culvert		1	2.82			2.82		
						Total Qty	25.88	72326.98	1872170.14
4	Providing and laying plain/reinforced cement concrete for side drain wall and bottom thickness 15cm using M20 nominal mix concrete with OPC @ 300 kgs. With 20mm and down size granite metal coarse aggregates complete as per specifications. KPWD S.R 2018-19								
		It.No.	37.59.1	Pg No.	271				
	CC Drain								
	Bottom Raft								
	Sai Nagar Phase-2								
	LHS, Ch:00-234 1st Main Road	Cum	1	234.00	1.00	0.15	35.10		
	RHS, Ch:00-213 1st Main Road		1	213.00	1.00	0.15	31.95		
	LHS, Ch:00-250 2nd Main Road		1	250.00	1.00	0.15	37.50		
	LHS, Ch:00-52 1st cross road		1	52.00	1.00	0.15	7.80		
	RHS, Ch:00-52 1st cross road		1	52.00	1.00	0.15	7.80		
	LHS, Ch:00- 44 7th cross road		1	44.00	1.00	0.15	6.60		
	RHS, Ch:00- 54 7th cross road		1	54.30	1.00	0.15	8.15		
	Anugraha layout								
	LHS, Ch:00 - 130 2nd cross road		1	130.00	1.00	0.15	19.50		
	RHS, Ch:00 - 131 2nd cross road		1	131.00	1.00	0.15	19.65		
	Side Wall								
	Sai Nagar Phase-2								
	LHS, Ch:00-234 1st Main Road		2	234.00	0.15	0.60	42.12		
	RHS, Ch:00-213 1st Main Road		2	213.00	0.15	0.60	38.34		
	LHS, Ch:00-250 2nd Main Road		2	250.00	0.15	0.60	45.00		
	LHS, Ch:00-52 1st cross road		2	52.00	0.15	0.60	9.36		
	RHS, Ch:00-52 1st cross road		2	52.00	0.15	0.60	9.36		
	LHS, Ch:00- 44 7th cross road		2	44.00	0.15	0.65	8.58		
	RHS, Ch:00- 54 7th cross road		2	54.30	0.15	0.65	10.59		
	Anugraha layout								
	LHS, Ch:00 - 130 2nd cross road		2	130.00	0.15	0.60	23.40		
	RHS, Ch:00 - 131 2nd cross road		2	131.00	0.15	0.60	23.58		
	New Culvert								
	Bottom Raft		8 1	7.00	1.30	0.20	14.56		
	Side Wall		8 2	7.00	0.25	0.60	16.80		
						Total Qty	415.73	7070.20	2939318.99
5	providing and fixing precast reinforced concrete slab 10cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steel at 150mm C/c both ways.								
	New cover slab								
	Sai Nagar Phase-2								
	LHS, Ch:00-234 1st Main Road	Sqm	1	234.00	0.90		210.60		
	RHS, Ch:00-213 1st Main Road		1	213.00	0.90		191.70		
	LHS, Ch:00-250 2nd Main Road		1	250.00	0.90		225.00		
	LHS, Ch:00-52 1st cross road		1	52.00	0.90		46.80		
	RHS, Ch:00-52 1st cross road		1	52.00	0.90		46.80		
	LHS, Ch:00- 44 7th cross road		1	44.00	0.90		39.60		
	RHS, Ch:00- 54 7th cross road		1	54.30	0.90		48.87		
	Anugraha layout								

Sl. No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
	LHS, Ch:00 - 130 2nd cross road		1	130.00	0.90		117.00		
	RHS, Ch:00 - 131 2nd cross road		1	131.00	0.90		117.90		
						Total Qty	1044.27	2337.00	2440458.99
6	Provoding and laying Precast Drain cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm & downsize with steel reinforcement complete as per specification.								
	New Culvert								
	Cross Road	Sqm	8	7.00	1.20		67.20		
						Total Qty	67.20	5418.00	364089.60
7	Providining & fixing precaste solid concrete kerb stones of size 450X200X400mm maid out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. KPWD S.R 2018-19	It No 5.29.1		Pg No. 27					
	New Kerb								
	Sai Nagar Phase-2								
	LHS, Ch:00-234 1st Main Road	Nos.	1	515.00			515.00		
	RHS, Ch:00-213 1st Main Road		1	550.00			550.00		
	LHS, Ch:00-250 2nd Main Road		1	471.00			471.00		
	Anugraha layout								
	LHS, Ch:00 - 130 2nd cross road		1	285.00			285.00		
	RHS, Ch:00 - 131 2nd cross road		1	286.00			286.00		
						Total Qty	2107.00	477.00	1005039.00
8	KSRRB 800-1 Painting two coats after filling surface with synthetic enamel paint in approved shades on new plastered concrete surface with materials, labour complete as per specifications. KPWD S.R 2018-19	It No. 24.1		Pg No. 180					
	New Kerb								
	Sai Nagar Phase-2								
	LHS, Ch:00-234 1st Main Road	Sqm	1	234.00		0.40	93.60		
	RHS, Ch:00-213 1st Main Road		1	213.00		0.40	85.20		
	LHS, Ch:00-250 2nd Main Road		1	250.00		0.35	87.50		
	Anugraha layout								
	LHS, Ch:00 - 130 2nd cross road		1	130.00		0.35	45.50		
	RHS, Ch:00 - 131 2nd cross road		1	131.00		0.35	45.85		
						Total Qty	357.65	84.80	30328.72
9	KSRRB M300-14. Excavation for road work in all type of soil by mechanical means including cutting loading to tippers trimming bottom and side slopes in accordance with requirment of lines and cross sections and transportation with a lead of 1.00 km and complete as per specification. MORTH Specification No.301 and 4Kms Lead for disposal. KPWD S.R 2018-19	It No. 19.14		Pg No. 143					
	Earth For Work								
	Sai Nagar Phase - 2	Cum							
	Ch:00-350 1st Main Road		1	350.00	7.50	0.40	1050.00		
	Ch:00-110 Entrance Road		1	110.00	7.50	0.40	330.00		
						Total Qty	1380.00	57.03	78701.40
10	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occcuring during rolling including cost of all labour, HOM complete as per specifications. MORTH I Chapter 3 KPWD S.R 2018-19	It No 19.64		Pg No. 147					
	compaction	Sqm							
	Sai Nagar Phase - 2		1	350.00	7.50		2625.00		
	Ch:00-350 1st Main Road		1	110.00	7.50		825.00		
	Ch:00-110 Entrance Road					Total Qty	3450.00	6.36	21942.00

Sl. No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
16	providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen(60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site laying with a paver finisher to required grade level and allignment rooling with smooth wheeled vibratory and tandem rollers to achive the desired compaction in all respects complete as per specifications KPWD S.R 2018-19	It No 21.78.12 Pg No. 171								
	BC Road								
	Sai Nagar Phase - 2	**Cum**							
	Ch:00-350 1st Main Road		1		350.00	7.50	0.03	78.75		
	Ch:00-110 Entrance Road		1		110.00	7.50	0.03	24.75		
							Total Qty	**103.5**	**8699.42**	**900389.97**
17	KSRRB M800-13. Road marking with hot applied thermoplastic compound with reflectrising glass beads on bituminous surface / concrete surface : providing and laying of hot applied thermo plastic compound 2.5mm thick including reflectorising glass beads at 250gms per sqm area thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35 standards specified.complete as per specifications. KPWD S.R 2018-19	It No 24.15 Pg No. 182								
	Edge lane								
	Road Both Side	**Sqm**	1	2	350.00	0.10		70.00		
	Road Centre		0.5	1	350.00	0.10		17.50		
	Road Both Side		1	2	110.00	0.10		22.00		
	Road Centre		0.5	1	110.00	0.10		5.50		
							Total Qty	**115.00**	**454.74**	**52295.1**
18	KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. KPWD S.R 2018-19	It No 24.41 Pg No. 187								
	Ch:00-350 1st Main Road		1	3	43.00			129.00		
	Ch:00-110 Entrance Road		1	3	18.00			54.00		
							Total Qty	**183.00**	**357.22**	**65371.26**
19	Directions and place indentification signs with size morethan 0.9 size board: providing and erecting directions and place identification retro- reflectorised sign as per IRC :67 made of high intensity grade sheeting vide clause 801.3 fixed over aluminium sheeting 2mm thick with area not exceeding 0.9 sqm supported on a mild steel single angel iron post 75X75X6 mm 2 Nos. firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45X45X60 cm, 60 cm below ground level as per approved drawing. KPWD S.R 2018-19	It No 24.4 Pg No. 180								
	Ch:00-350 1st Main Road	**Sqm**	2		0.9		0.9	1.62		
							Total Qty	**1.62**	**7557.8**	**12243.64**
									Total Construction cost	**14783939.01**
									12% GST	**1774072.681**
									Design report, proof checking & PMC Amount	**350000.00**
									Add KRIDL charges 4%	**591357.56**

Sl. No	Description of Work	Unit	No	Dimension			Quantity	Rate in Rs.	Amount In Rs.
				L	B	D			
								Sub Total	174,99,369.53
								Miscellaneous & Rounding Off	630.47
								Grand Total	175,00,000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

SRI SAI CONSULTANTS BANGALORE-90

Consultant
For Sri Sai Consultants

Assistant Engineer
Ward no. 03
BBMP - Bangalore

Assistant Executive Engineer
Yelahanka Sub Division
BBMP - Bangalore

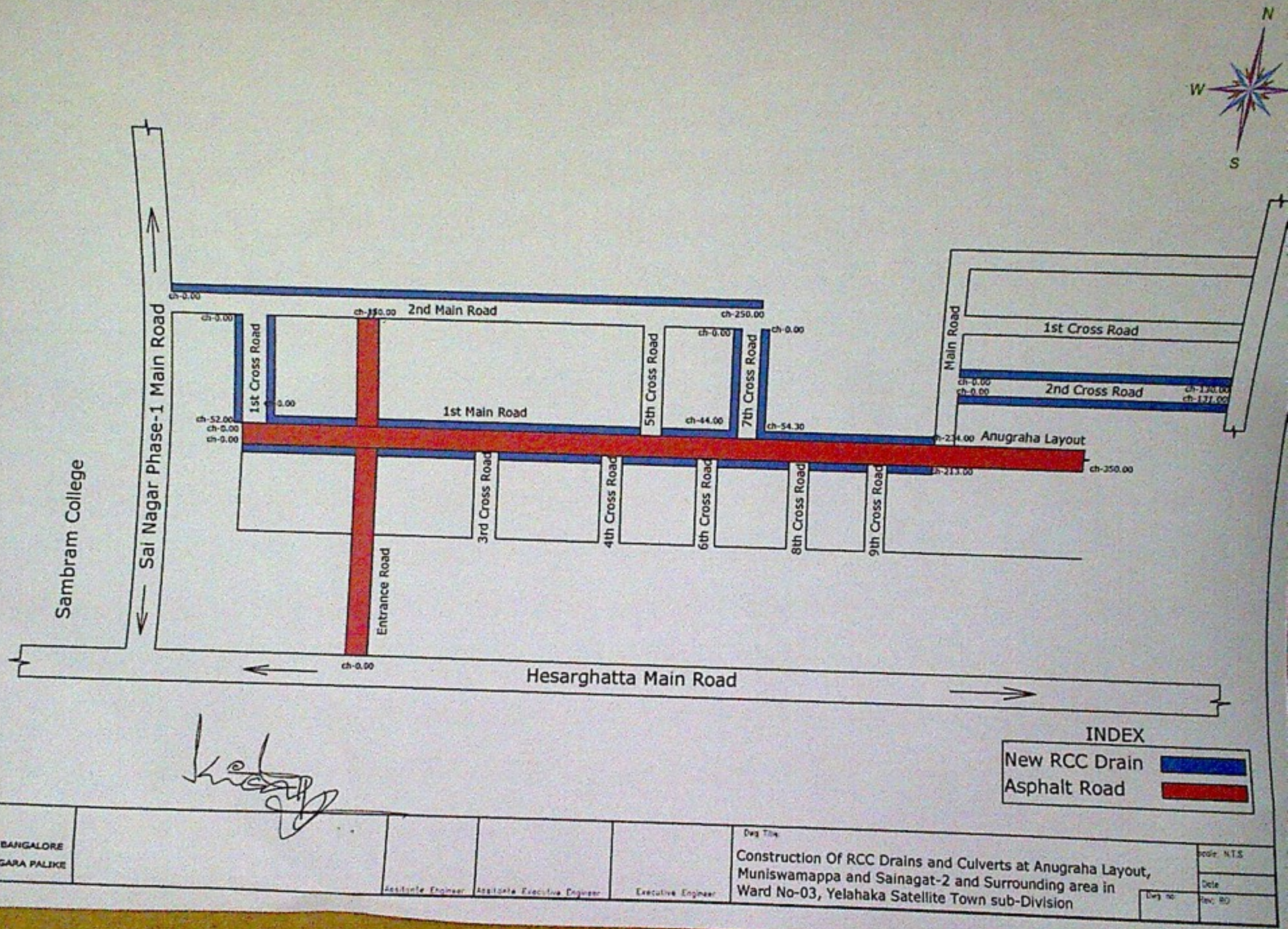
Executive Engineer
Yelahanka Division
BBMP - Bangalore

Administrative Sanction for Rs. 175.00 lakhs
One crore seventy five
lakhs only
is accorded under head P-3749
Grn-Navanagarothana 110-Village
grants Annexure-07
Registered as CE No: Subject
to conditions contained in enclosed memo
No. EE/YNK/SA/2019-20 Dt: 7/11/2019

Executive Engineer

Technical Sanction
Accorded For R.S 175 w lakhs only
Head of A/C P 3749
CER NO: 196 Dt: 08.11.2019

TA CE (YNK)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W
S
Sambram College
Sai Nagar Phase-1 Main Road
2nd Main Road
1st Main Road
1st Cross Road
3rd Cross Road
4th Cross Road
5th Cross Road
6th Cross Road
7th Cross Road
8th Cross Road
9th Cross Road
Main Road
1st Cross Road
2nd Cross Road
Anugraha Layout
Entrance Road
Hesarghatta Main Road
ch-0.00
ch-250.00
ch-52.00
ch-44.00
ch-54.30
ch-234.00
ch-213.00
ch-350.00
INDEX
New RCC Drain
Asphalt Road
CLIENT
BRUHAT BANGALORE MAHANAGARA PALIKE
Assistant Engineer
Assistant Executive Engineer
Executive Engineer
Dwg Title
Construction Of RCC Drains and Culverts at Anugraha Layout, Muniswamappa and Sainagat-2 and Surrounding area in Ward No-03, Yelahaka Satellite Town sub-Division
Scale: N.T.S
Date
Dwg no
Rev: R0